

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>IOWA, Southwest</b>				
<b>MONONA COUNTY --- 2.9 NE WHITING [42.16, -96.11]</b>				
	07/08/13 14:35 CST		0	Hail (1.00 in)
	07/08/13 14:35 CST		0	Source: Public
Thunderstorm winds accompanying the storm also downed some tree branches in the area.				
<b>MONONA COUNTY --- 2.9 NE ALBATON [42.21, -96.26]</b>				
	07/08/13 15:20 CST		0	Thunderstorm Wind (EG 52 kt)
	07/08/13 15:20 CST		0	Source: Public
Thunderstorm wind gusts estimated at 60 mph downed several large tree branches in the area.				
Very unstable conditions prevailed over western Iowa during the afternoon of July 8th as temperatures warmed to around 90 with dew point temperatures in the lower 70s. An isolated severe thunderstorm developed along a weak boundary in west central Iowa producing large hail and damaging wind gusts before weakening.				
<b>POTTAWATTAMIE COUNTY --- 0.5 W CHAUTAUQUA [41.28, -95.81]</b>				
	07/21/13 15:55 CST		0	Hail (0.88 in)
	07/21/13 15:55 CST		0	Source: Trained Spotter
Isolated thunderstorms developed across parts of western Iowa during the late afternoon of July 21st. Severe weather was not observed with the thunderstorms, but small hail was reported. The thunderstorms quickly diminished during the evening.				
<b>POTTAWATTAMIE COUNTY --- LOVELAND [41.50, -95.90]</b>				
	07/22/13 18:08 CST		0	Hail (1.25 in)
	07/22/13 18:08 CST		0	Source: COOP Observer
<b>HARRISON COUNTY --- 1.2 WNW MISSOURI VLY ARPT [41.54, -95.90]</b>				
	07/22/13 18:10 CST		0	Hail (1.25 in)
	07/22/13 18:10 CST		0	Source: Public
<b>SHELBY COUNTY --- 2.5 ENE SHELBY [41.54, -95.41]</b>				
	07/22/13 19:12 CST		0	Hail (1.00 in)
	07/22/13 19:12 CST		0	Source: Public
<b>POTTAWATTAMIE COUNTY --- 4.0 ENE AVOCA [41.50, -95.28]</b>				
	07/22/13 19:22 CST		0	Hail (1.00 in)
	07/22/13 19:22 CST		0	Source: Trained Spotter
A storm system moving into the Great Lakes allowed for a cold front to move southeast into western Iowa and eastern Nebraska. The atmosphere along and ahead of the cold front become strongly unstable during the afternoon and evening. Scattered thunderstorms developed along and ahead of the cold front and produced isolated severe weather. The thunderstorms quickly diminished during the late evening as the instability decreased.				
<b>NEBRASKA, East</b>				
<b>(NE-Z012) CEDAR, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE</b>				
	07/01/13 00:00 CST		0	Drought
	07/31/13 23:59 CST		0	
Appreciable rainfall across the area was sparse during the month. The city of Omaha had it second driest July on record only behind the July of 2012, Norfolk and Lincoln had their 19th and 13th driest July's respectfully. With soil moisture limited from previous dry periods, this allowed for drought conditions to increase across most of eastern Nebraska and western Iowa, but especially across parts of northeast Nebraska where the combination of warmer temperatures and drier ground to start created worse drought conditions. Cooler than normal temperatures across most of western Iowa and eastern Nebraska tended to mitigate more extreme drought conditions. Nevertheless in northeast Nebraska nearly 50 percent of the ground soil moisture was rated at short and 24 percent was very short by the end of the month.				

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SALINE COUNTY --- 7.7 S DORCHESTER [40.54, -97.14], 7.4 N WESTERN [40.51, -97.19]	07/02/13 16:28 CST		0	Hail (1.50 in)
	07/02/13 16:33 CST		0	Source: Public

Hail as large as ping pong ball-size fell north of Western and west of Wilber for about 5 minutes. The hail partially shredded crops in the area and some accumulation was noted on roads.

SAUNDERS COUNTY --- 0.7 S YUTAN [41.24, -96.40]	07/02/13 16:43 CST		0	Hail (0.88 in)
	07/02/13 16:43 CST		0	Source: NWS Storm Survey

Isolated thunderstorms developed during the afternoon of July 2 on the backside of an upper level low pressure system. Modest instability and shear allowed one or two of these slowly moving storms to become severe with large hail.



*Here is a photo of some of the hail on July 2nd, located at 11 miles west and 2 miles north of Wilber, NE. Photo by Saline County Emergency Manager, B.J. Fictum.*

CEDAR COUNTY --- 3.1 NNE ATEN [42.84, -97.44]	07/07/13 19:30 CST		0	Thunderstorm Wind (EG 55 kt)
	07/07/13 19:30 CST		0	Source: Emergency Manager

Thunderstorm wind gusts estimated at over 60 mph downed some very large trees in the Tailwaters campground.

CEDAR COUNTY --- 0.7 S ST HELENA [42.81, -97.25]				
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	07/07/13 19:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/07/13 19:50 CST		0	Source: Trained Spotter

Thunderstorm winds were estimated at 60 mph by a spotter.

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### CEDAR COUNTY --- 0.7 S WYNOT [42.74, -97.17]

07/07/13 19:50 CST	0	Thunderstorm Wind (EG 55 kt)
07/07/13 19:50 CST	0	Source: Emergency Manager

Thunderstorm wind gusts downed large tree limbs onto power lines which caused some scattered power outages in the Wynot and St. Helena areas.

**Thunderstorms developed in South Dakota north of a stationary front across Nebraska. A small cluster of storms accelerated southeast and clipped extreme northeast Nebraska causing isolated areas of wind damage.**

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### SARPY COUNTY --- 0.7 ENE RUMSEY [41.17, -95.97], 0.9 WSW FT CROOK [41.12, -95.97]

07/21/13 17:23 CST	0	Hail (1.75 in)
07/21/13 17:44 CST	0	Source: Trained Spotter

Numerous reports of large hail were reported from trained spotter, the public, and law enforcement in the Bellevue area. Many of the reports were along 36th street to the north and south of Highway 370. The majority of the hail reports were 1 to 1.50 inches in diameter, but hail as large as 1.75 inches was also reported.

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### CASS COUNTY --- 0.5 W LOUISVILLE [41.00, -96.16]

07/21/13 18:26 CST	0	Thunderstorm Wind (EG 52 kt)
07/21/13 18:26 CST	0	Source: Trained Spotter

A spotter estimated a wind gust to near 60 mph, but no damage was reported.

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### CASS COUNTY --- MANLEY [40.92, -96.17]

07/21/13 18:40 CST	0	Hail (1.75 in)
07/21/13 18:40 CST	0	Source: Trained Spotter

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### CASS COUNTY --- 0.9 SW MANLEY [40.91, -96.18]

07/21/13 18:57 CST	0	Hail (1.75 in)
07/21/13 18:57 CST	0	Source: Trained Spotter

**Isolated to scattered thunderstorms developed in east central and southeast Nebraska during the late afternoon on the 21st. Although shear was marginal for organized severe weather, localized reports of severe weather were observed with a couple of the thunderstorms. The activity quickly diminished during the evening hours as the instability decreased.**

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### SAUNDERS COUNTY --- 4.2 WSW SWEDEBURG [41.10, -96.70]

07/22/13 15:49 CST	0	Hail (1.75 in)
07/22/13 15:49 CST	0	Source: Trained Spotter

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### SAUNDERS COUNTY --- 2.8 S WESTON [41.16, -96.74], 0.6 ENE WESTON [41.20, -96.74]

07/22/13 16:38 CST	0	Hail (1.25 in)
07/22/13 16:52 CST	0	Source: Trained Spotter

Hail was mostly dime, but a few stones were up to a quarter and a half dollar in size.

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### WASHINGTON COUNTY --- 3.7 ESE KENNARD [41.44, -96.14]

07/22/13 17:45 CST	0	Hail (1.75 in)
07/22/13 17:45 CST	0	Source: Trained Spotter

The hail was reported at the Blair Municipal Airport.

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### DOUGLAS COUNTY --- 2.4 SSE BENNINGTON [41.34, -96.16], 2.8 NNW BOYS TOWN [41.31, -96.15]

07/22/13 17:58 CST	0	Hail (2.50 in)
07/22/13 18:07 CST	0	Source: Social Media

Trained spotters reported hail of around 1 inch in diameter, but posted on Twitter was a picture of hail up to 2.50 inches in diameter.

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CEDAR COUNTY --- 0.5 E HARTINGTON [42.62, -97.26]	07/25/13 11:47 CST	0		Hail (1.00 in)
	07/25/13 11:47 CST	0		Source: Public

Isolated thunderstorms develop along a weak cold front in northeast Nebraska during the late morning and afternoon of July 25th. Isolated reports of severe hail occurred with one of the storms.